# Minutes of the 3rd General Meeting of the AOV

**Participants:**
Shinji Horiuchi (CDSCC), Chris Phillips (CSIRO), Nicholas Brown, Oleg Titov (GA), Warren Hankey, Jamie McCallum*, Simin Salarpour, Gabor Orosz (UTAS), Fengchun Shu, Bo Xia (SHAO), Takahiro Wakasugi, Masafumi Ishigaki (GSI), Takaaki Jike (NAOJ), Sergei Gulyaev (AUT), Vladimir Zharov (Moscow State University)
* participation via teleconference system

**Dates:** November 9, 2018

**Place:** Sir Harold Raggatt Theatre, Geoscience Australia

**Agenda:**
- Observing Status
- VGOS in AOV
- Future Meetings

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## Observing Status

Observing schedule in 2018 and 2019

Observing schedule in 2018 and 2019 was discussed. AOV sessions in 2018 have been carried out without any major problems so far.
The continuation of a monthly AOV session in 2019 was agreed. The task of scheduling and correlation is shared with GSI, SHAO, and UTAS as in the past. More contribution especially to correlation is still encouraged for load balancing. Prof. Gulyaev expressed the possibility of AUT's contribution as a correlator.

*AI. The Chair send the drafted AOV session schedule in 2019 to all components and finalize.*

Science and R&D sessions, making good use of large telescopes

Dr. Titov showed a summary of his study on General Relativity using AOV sessions. Ms. Salarpour can help him with investigating the impact of source structure. AOV will continue to support his study.

Utilization of large telescopes in AO region was discussed. Mr. Phillips pointed out the importance of determination of station positions for astrometry. Dr. Horiuchi suggested the possibility of partial contribution of DSS stations to AOV astrometry by using "dynamic scheduling" method.
More publication and presentation of studies using AOV are encouraged.

AOV operation mailing list

The number of observation is increased and the next challenge is the improvement of data quality. The AOV operation mailing list launched after AOV retreat on March 2018. The mailing list is used for sharing scheduling files and for giving feedbacks to stations from GSI correlator at this time. The intensification of effort to feedback from correlators to stations and schedulers was proposed. Posting of ready/start/end messages from each station to the mailing list was agreed in order to monitor status of stations.

*AI. Correlators utilize the AOV-operation mailing list for giving feedbacks to stations and schedulers in order to improve data quality of AOV sessions.*
*AI. All stations should post their ready/start/end messages on AOV sessions to AOV-operation mailing list as well as IVS-ops to share status and problems.*

Analysis of AOV sessions

The analysis of AOV sessions were discussed. GSFC is in charge of the baseline analysis of AOV sessions. GSI and UTAS run the analysis of AOV sessions for internal use. Talented people for analysis are lacking in SHAO. Participants agreed that it was worth to analyze AOV sessions in parallel with GSFC and compare results.

*AI. The Chair approach Dirk Behrend on this matter.*

**VGOS in AOV**

Observing and Correlation Status

GSI, SHAO, UTAS, and AUT provided information on their VGOS related activities. GSI participated in IVS-VT sessions as well as fringe tests with NICT and UTAS by using Ishioka station. SHAO obtained the first light on their VGOS telescope and tested correlation of VGOS data. UTAS tried to improve the VGOS system of Hobart and carried out domestic mixed-mode sessions regularly. AUT participated in distributed correlation test and promoted cloud correlation

research. Mr. Phillips agreed with utilization of open computational resources.

Future VGOS observation in Asia-Oceania region

GSI, SHAO, UTAS and AUT delivered their future plan on VGOS. GSI continues VGOS test with Ishioka for a few month in 2019 and has interest in correlation of VGOS data. SHAO proceeds with develop and test of VGOS system and also has an interest in correlation of VGOS data. UTAS concentrates on development for regular VGOS observation with Hobart and then will upgrade other two stations. AUT watches the VGOS development calmly for a while.
Future VGOS activities in AO region was discussed. AOV original VGOS tests will not be performed in 2019 considering status of stations and correlators. Instead, the share of information on VGOS is encouraged by using AOV mailing list. The expansion of mixed-mode sessions to AOV network will also be considered.

*AI. All should share information on VGOS activities by using the AOV mailing list.*

**Future meetings**

The next AOV meeting was discussed. Priorities of AOV meetings are the hold of small-scale group discussion to enhance collaboration and the closeness of the meeting place to save travel budgets. The next meeting will be held in conjunction with relating conference around the first half of 2020 in Asia region considering the interval and location so far. Candidate events are AGU 2019 Fall Meeting (Dec. 2019 in San Francisco), 11th IVS General Meeting (Mar. 2020 in Annapolis, USA), 17th AOGS Annual Meeting (Jun. - Jul. 2020 in Gangwon, Korea) and 22nd International Workshop on Laser Ranging (Oct. 2020 in Kunming). The 17th AOGS seems best so far. SHAO is also willing to host the next meeting. The collection of information on relating conferences will be continued.

*AI. The Chair contact colleagues in Korea to hear their opinion on hosting the next AOV meeting in conjunction with 17th AOGS Annual Meeting.*
*AI. All should continue to collect information on relating conferences and inform the Chair.*